FIG. 1(a) prior art

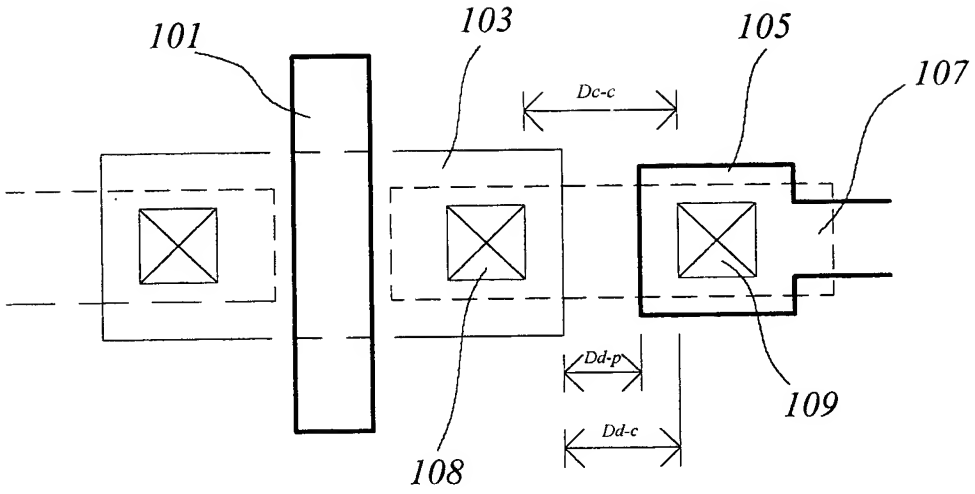

FIG. 1(b) prior art

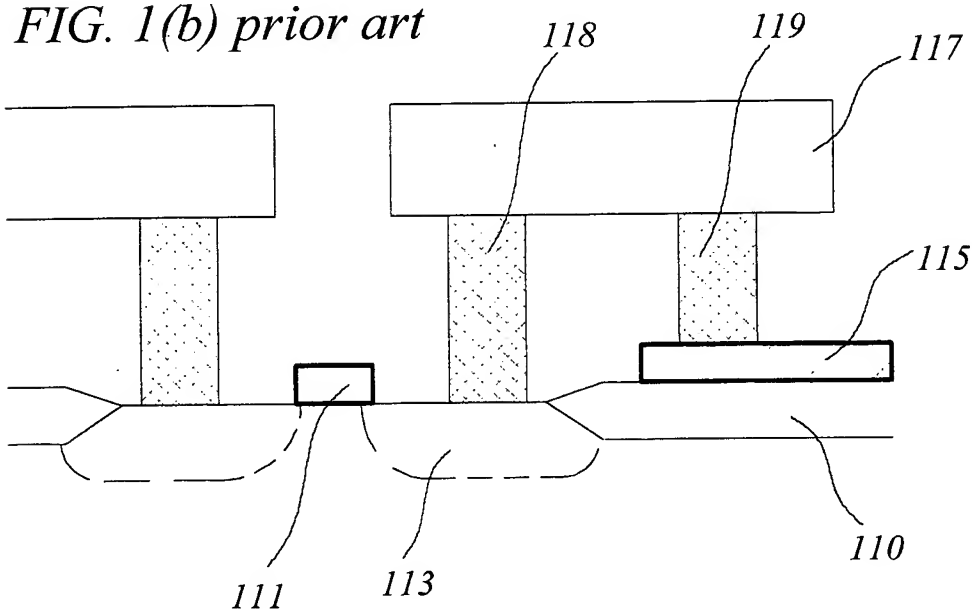

FIG. 2(a) top view

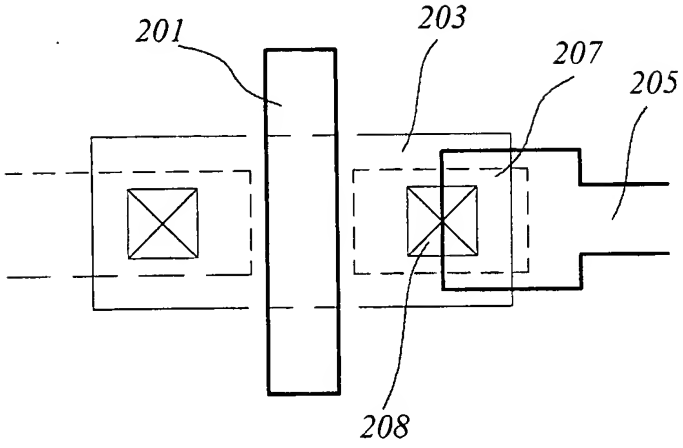

FIG. 2(b) cross section after contact etch

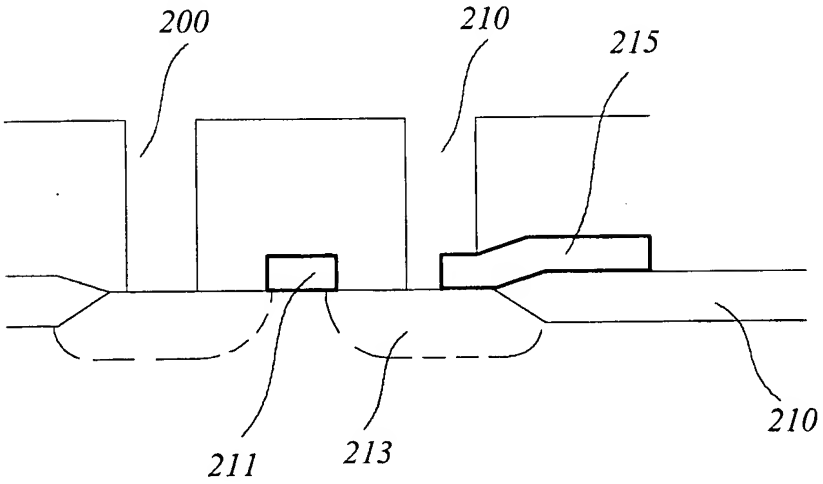

FIG. 2(c) cross section after metal 1

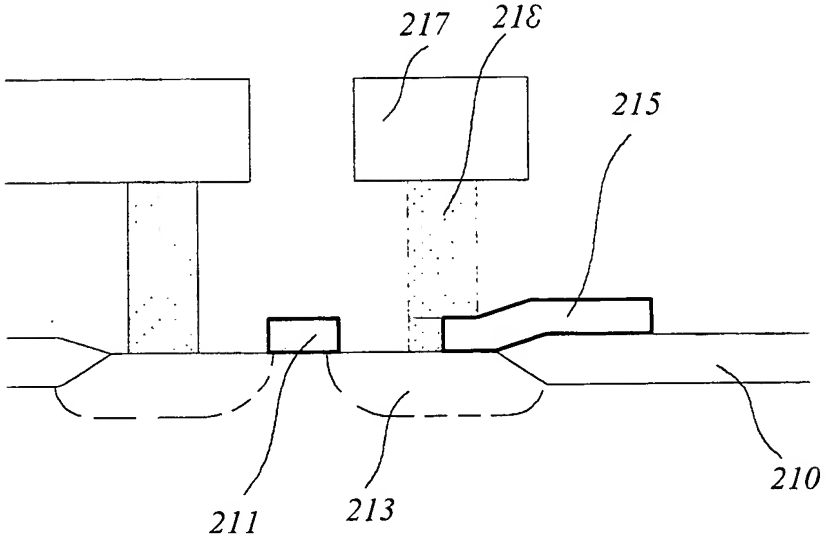

FIG. 2(d) no metal cap

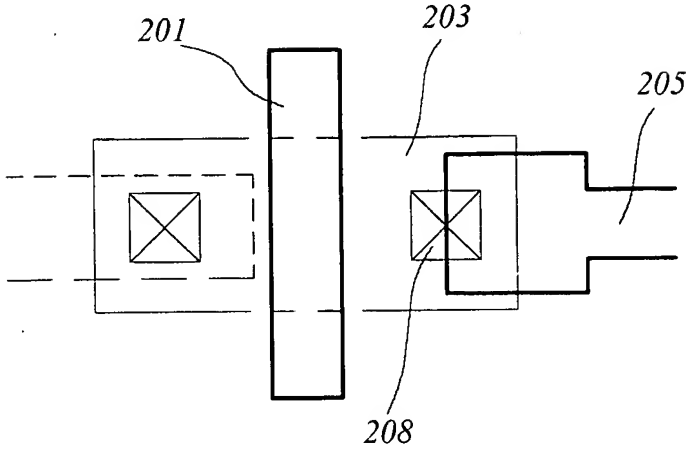

FIG. 2(e) cross section after contact etch

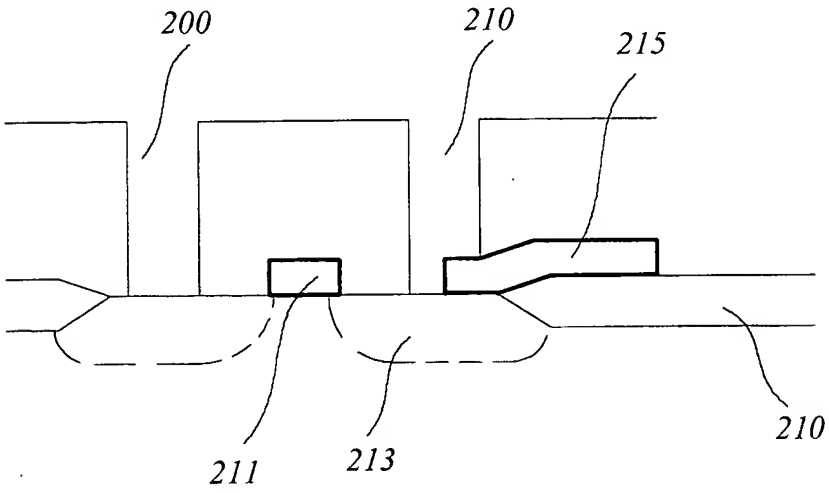

FIG. 2(f) cross section after metal 1

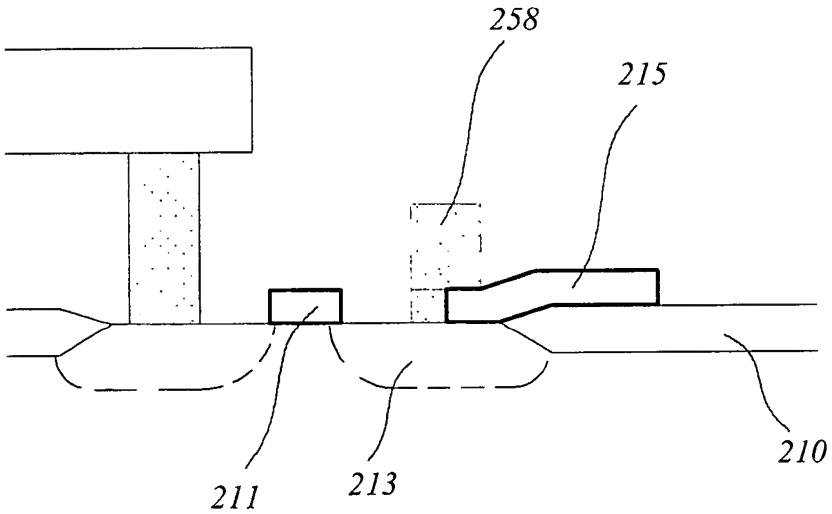

FIG. 3(a) rectangle contact

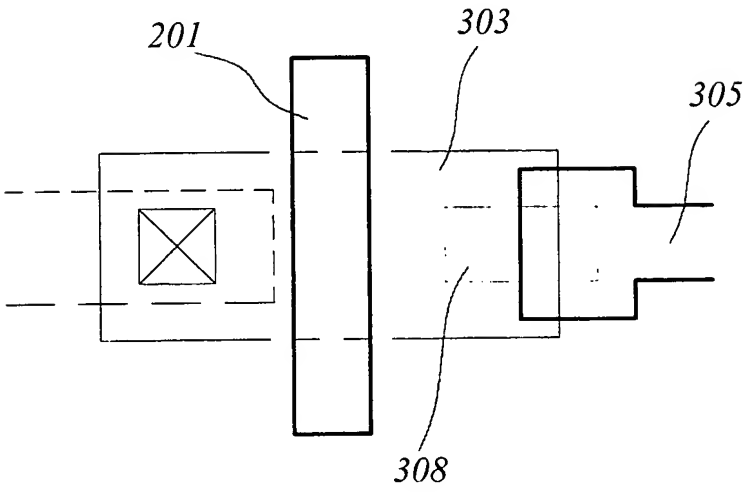
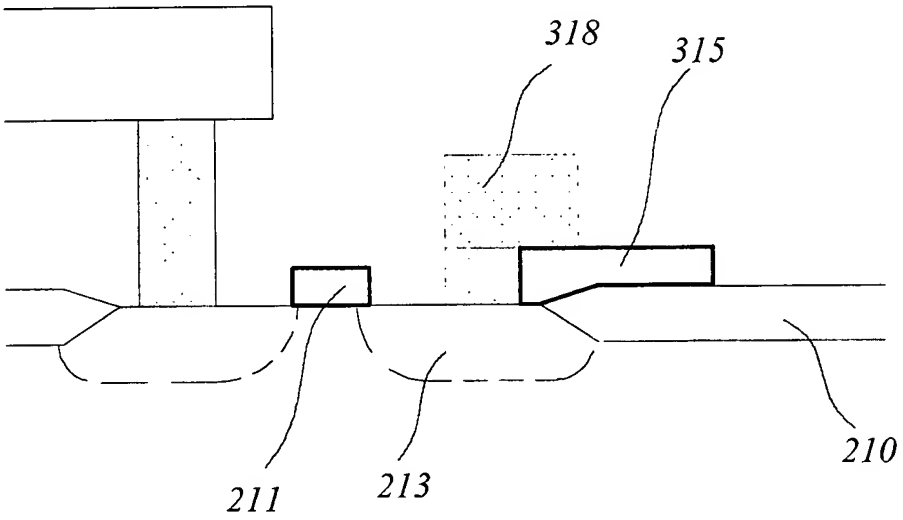
FIG. 3(b) cross section for rectangle contact